

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/705,519
Source: IFWO
Date Processed by STIC: 1/4/05

ENTERED



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/705,519

DATE: 01/04/2005

TIME: 09:41:14

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\01042005\J705519.raw

4 <110> APPLICANT: Robl, James M.
 5 Kuroiwa, Yoshimi
 6 Tomizuka, Kazuma
 7 Ishida, Isao
 9 <120> TITLE OF INVENTION: Transgenic Ungulates Having Reduced
 10 Prion Protein Activity and Uses Thereof
 13 <130> FILE REFERENCE: 50195/023003
 15 <140> CURRENT APPLICATION NUMBER: US 10/705,519
 16 <141> CURRENT FILING DATE: 2003-11-10
 18 <150> PRIOR APPLICATION NUMBER: US 60/506,901
 19 <151> PRIOR FILING DATE: 2003-09-26
 21 <150> PRIOR APPLICATION NUMBER: US 60/425,056
 22 <151> PRIOR FILING DATE: 2002-11-08
 24 <160> NUMBER OF SEQ ID NOS: 94
 26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 20
 30 <212> TYPE: DNA
 31 <213> ORGANISM: Artificial Sequence
 33 <220> FEATURE:
 34 <223> OTHER INFORMATION: Synthetic Primer
 36 <400> SEQUENCE: 1
 37 agtgagataa gcagtggatg 20
 39 <210> SEQ ID NO: 2
 40 <211> LENGTH: 20
 41 <212> TYPE: DNA
 42 <213> ORGANISM: Artificial Sequence
 44 <220> FEATURE:
 45 <223> OTHER INFORMATION: Synthetic Primer
 47 <400> SEQUENCE: 2
 48 cttgtgctac tcccatcact 20
 50 <210> SEQ ID NO: 3
 51 <211> LENGTH: 22
 52 <212> TYPE: DNA
 53 <213> ORGANISM: Artificial Sequence
 55 <220> FEATURE:
 56 <223> OTHER INFORMATION: Synthetic Primer
 58 <400> SEQUENCE: 3
 59 ggagaccacc aaaccctcca aa 22
 61 <210> SEQ ID NO: 4
 62 <211> LENGTH: 23
 63 <212> TYPE: DNA
 64 <213> ORGANISM: Artificial Sequence

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```

66 <220> FEATURE:
67 <223> OTHER INFORMATION: Synthetic Primer
69 <400> SEQUENCE: 4
70 gagagttgca gaaggggtyg act 23
72 <210> SEQ ID NO: 5
73 <211> LENGTH: 20
74 <212> TYPE: DNA
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Synthetic Primer
80 <400> SEQUENCE: 5
81 accacctatg acagcgtgac 20
83 <210> SEQ ID NO: 6
84 <211> LENGTH: 20
85 <212> TYPE: DNA
86 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: Synthetic Primer
91 <400> SEQUENCE: 6
92 gtggcagcaa gtagacatcg 20
94 <210> SEQ ID NO: 7
95 <211> LENGTH: 22
96 <212> TYPE: DNA
97 <213> ORGANISM: Artificial Sequence
99 <220> FEATURE:
100 <223> OTHER INFORMATION: Synthetic Primer
102 <400> SEQUENCE: 7
103 gtcacatctct ctgccccttc tg 22
105 <210> SEQ ID NO: 8
106 <211> LENGTH: 22
107 <212> TYPE: DNA
108 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Synthetic Primer
113 <400> SEQUENCE: 8
114 aacaacttct tgatgtcatc at 22
116 <210> SEQ ID NO: 9
117 <211> LENGTH: 20
118 <212> TYPE: DNA
119 <213> ORGANISM: Artificial Sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: Synthetic Primer
124 <400> SEQUENCE: 9
125 ccctcctctt tgtgctgtca 20
127 <210> SEQ ID NO: 10
128 <211> LENGTH: 20
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:

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133 <223> OTHER INFORMATION: Synthetic Primer
135 <400> SEQUENCE: 10
136 caccgtgctc tcacgcgatg                                20
138 <210> SEQ ID NO: 11
139 <211> LENGTH: 23
140 <212> TYPE: DNA
141 <213> ORGANISM: Artificial Sequence
143 <220> FEATURE:
144 <223> OTHER INFORMATION: Synthetic Primer
146 <400> SEQUENCE: 11
147 caggtgcagc tggaggagtc tgg                                23
149 <210> SEQ ID NO: 12
150 <211> LENGTH: 20
151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: Synthetic Primer
157 <400> SEQUENCE: 12
158 caggagaaaag tgatggagtc                                20
160 <210> SEQ ID NO: 13
161 <211> LENGTH: 22
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Synthetic Primer
168 <400> SEQUENCE: 13
169 ggagaccacc aaaccctcca aa                                22
171 <210> SEQ ID NO: 14
172 <211> LENGTH: 20
173 <212> TYPE: DNA
174 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: Synthetic Primer
179 <400> SEQUENCE: 14
180 gtggcagcaa gtagacatcg                                20
182 <210> SEQ ID NO: 15
183 <211> LENGTH: 20
184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial Sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Synthetic Primer
190 <400> SEQUENCE: 15
191 caggagaaaag tgatggagtc                                20
193 <210> SEQ ID NO: 16
194 <211> LENGTH: 20
195 <212> TYPE: DNA
196 <213> ORGANISM: Artificial Sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: Synthetic Primer

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```

201 <400> SEQUENCE: 16
202 aggcagccaa cggccacgct                                20
204 <210> SEQ ID NO: 17
205 <211> LENGTH: 23
206 <212> TYPE: DNA
207 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: Synthetic Primer
212 <400> SEQUENCE: 17
213 caggtgcagc tgggtggagtc tgg                            23
215 <210> SEQ ID NO: 18
216 <211> LENGTH: 20
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial Sequence
220 <220> FEATURE:
221 <223> OTHER INFORMATION: Synthetic Primer
223 <400> SEQUENCE: 18
224 agtgagataa gcagtggatg                                20
226 <210> SEQ ID NO: 19
227 <211> LENGTH: 20
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: Synthetic Primer
234 <400> SEQUENCE: 19
235 cttgtgctac tcccatcact                                20
237 <210> SEQ ID NO: 20
238 <211> LENGTH: 22
239 <212> TYPE: DNA
240 <213> ORGANISM: Artificial Sequence
242 <220> FEATURE:
243 <223> OTHER INFORMATION: Synthetic Primer
245 <400> SEQUENCE: 20
246 ggagaccacc aaaccctcca aa                            22
248 <210> SEQ ID NO: 21
249 <211> LENGTH: 23
250 <212> TYPE: DNA
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Synthetic Primer
256 <400> SEQUENCE: 21
257 gagagttgca gaaggggtyg act                            23
259 <210> SEQ ID NO: 22
260 <211> LENGTH: 22
261 <212> TYPE: DNA
262 <213> ORGANISM: Artificial Sequence
264 <220> FEATURE:
265 <223> OTHER INFORMATION: Synthetic Primer
267 <400> SEQUENCE: 22

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268 ggagaccacc aaaccctcca aa                22
270 <210> SEQ ID NO: 23
271 <211> LENGTH: 22
272 <212> TYPE: DNA
273 <213> ORGANISM: Artificial Sequence
275 <220> FEATURE:
276 <223> OTHER INFORMATION: Synthetic Primer
278 <400> SEQUENCE: 23
279 gagagttgca gaaggggtga ct                22
281 <210> SEQ ID NO: 24
282 <211> LENGTH: 23
283 <212> TYPE: DNA
284 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:
287 <223> OTHER INFORMATION: Synthetic Primer
289 <400> SEQUENCE: 24
290 caggtgcagc tgggtggagtc tgg            23
292 <210> SEQ ID NO: 25
293 <211> LENGTH: 20
294 <212> TYPE: DNA
295 <213> ORGANISM: Artificial Sequence
297 <220> FEATURE:
298 <223> OTHER INFORMATION: Synthetic Primer
300 <400> SEQUENCE: 25
301 caggagaaag tgatggagtc                20
303 <210> SEQ ID NO: 26
304 <211> LENGTH: 22
305 <212> TYPE: DNA
306 <213> ORGANISM: Artificial Sequence
308 <220> FEATURE:
309 <223> OTHER INFORMATION: Synthetic Primer
311 <400> SEQUENCE: 26
312 gtcacatcatct ctgccccttc tg            22
314 <210> SEQ ID NO: 27
315 <211> LENGTH: 22
316 <212> TYPE: DNA
317 <213> ORGANISM: Artificial Sequence
319 <220> FEATURE:
320 <223> OTHER INFORMATION: Synthetic Primer
322 <400> SEQUENCE: 27
323 aacaacttct tgatgtcatc at                22
325 <210> SEQ ID NO: 28
326 <211> LENGTH: 29
327 <212> TYPE: DNA
328 <213> ORGANISM: Artificial Sequence
330 <220> FEATURE:
331 <223> OTHER INFORMATION: Synthetic Primer
333 <400> SEQUENCE: 28
334 gggaattcgg gtagaagttc actgatcag        29

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RAW SEQUENCE LISTING ERROR SUMMARY
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Input Set : A:\seqlist.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:48; N Pos. 676,677,678,679,680,681,682,683,684,685,686,687,688,689,690
Seq#:48; N Pos. 691,692,693,694,695,696,697,698,699,700,701,702,703,704,705
Seq#:48; N Pos. 706,707,708,709,710,711,712,713,714,715,716,717,718,719,720
Seq#:48; N Pos. 721,722,723,724,725,726,727,728,729,730,731,732,733,734,735
Seq#:48; N Pos. 736,737,738,739,740,741,742,743,744,745,746,747,748,749,750
Seq#:48; N Pos. 751,752,753,754,755,756,757,758,759,760,761,762,763,764,765
Seq#:48; N Pos. 766,767,768,769,770,771,772,773,774,775,776,777,778,779,780
Seq#:48; N Pos. 781,782,783,784,785,786,787,788,789,790,791,792,793,794,795
Seq#:48; N Pos. 796,797,798,799,800,801,802,803,804,805,806,807,808,809,810
Seq#:48; N Pos. 811,812,813,814,815,816,817,818,819,820,821,822,823,824,825
Seq#:48; N Pos. 826,827,828,829,830,831,832,833,834,835,836,837,838,839,840
Seq#:48; N Pos. 841,842,843,844,845,846,847,848,849,850,851,852,853,854,855
Seq#:48; N Pos. 856,857,858,859,860,861,862,863,864,865,866,867,868,869,870
Seq#:48; N Pos. 871,872,873,874,875,876,877,878,879,880,881,882,883,884,885
Seq#:48; N Pos. 886,887,888,889,890,891,892,893,894,895,896,897,898,899,900
Seq#:48; N Pos. 901,902,903,904,905,906,907,908,909,910,911,912,913,914,915
Seq#:48; N Pos. 916,917,918,919,920,921,922,923,924,925,926,927,928,929,930
Seq#:48; N Pos. 931,932,933,934,935,936,937,938,939,940,941,942,943,944,945
Seq#:48; N Pos. 946,947,948,949,950,951,952,953,954,955,956,957,958,959,960
Seq#:48; N Pos. 961,962,963,964,965,966,967,968,969,970,971,972,973,974,975
Seq#:48; N Pos. 976,977,978,979,980,981,982,983,984,985,986,987,988,989,990
Seq#:48; N Pos. 991,992,993,994,995,996,997,998,999,1000,1001,1002,1003
Seq#:48; N Pos. 1004,1005,1006,1007,1008,1009,1010,1011,1012,1013,1014,1015
Seq#:48; N Pos. 1016,1017,1018,1019,1020,1021,1022,1023,1024,1025,1026,1027
Seq#:48; N Pos. 1028,1029,1030,1031,1032,1033,1034,1035,1036,1037,1038,1039
Seq#:48; N Pos. 1040,1041,1042,1043,1044,1045,1046,1047,1048,1049,1050,1051
Seq#:48; N Pos. 1052,1053,1054,1055,1056,1057,1058,1059,1060,1061,1062,1063
Seq#:48; N Pos. 1064,1065,1066,1067,1068,1069,1070,1071,1072,1073,1074,1075
Seq#:48; N Pos. 1076,1077,1078,1079,1080,1081,1082,1083,1084,1085,1086,1087
Seq#:48; N Pos. 1088,1089,1090,1091,1092,1093,1094,1095,1096,1097,1098,1099
Seq#:48; N Pos. 1100,1101,1102,1103,1104,1105,1106,1107,1108,1109,1110,1111
Seq#:48; N Pos. 1112,1113,1114,1115,1116,1117,1118,1119,1120,1121,1122,1123
Seq#:48; N Pos. 1124,1125,1126,1127,1128,1129,1130,1131,1132,1133,1134,1135
Seq#:48; N Pos. 1136,1137,1138,1139,1140,1141,1142,1143,1144,1145,1146,1147
Seq#:48; N Pos. 1148,1149,1150,1151,1152,1153,1154,1155,1156,1157,1158,1159
Seq#:48; N Pos. 1160,1161,1162,1163,1164,1165,1166,1167,1168,1169,1170,1171
Seq#:48; N Pos. 1172,1173,1174,1175,1176,1177,1178,1179,1180,1181,1182,1183
Seq#:48; N Pos. 1184,1185,1186,1187,1188,1189,1190,1191,1192,1193,1194,1195
Seq#:48; N Pos. 1196,1197,1198,1199,1200,1201,1202,1203,1204,1205,1206,1207
Seq#:48; N Pos. 1208,1209,1210,1211,1212,1213,1214,1215,1216,1217,1218,1219
Seq#:48; N Pos. 1220,1221,1222,1223,1224,1225,1226,1227,1228,1229,1230,1231
Seq#:48; N Pos. 1232,1233,1234,1235,1236,1237,1238,1239,1240,1241,1242,1243
Seq#:48; N Pos. 1244,1245,1246,1247,1248,1249,1250,1251,1252,1253,1254,1255
Seq#:48; N Pos. 1256,1257,1258,1259,1260,1261,1262,1263,1264,1265,1266,1267

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Seq#:48; N Pos. 1268,1269,1270,1271,1272,1273,1274,1275,1276,1277,1278,1279
Seq#:48; N Pos. 1280,1281,1282,1283,1284,1285,1286,1287,1288,1289,1290,1291
Seq#:48; N Pos. 1292,1293,1294,1295,1296,1297,1298,1299,1300,1301,1302,1303
Seq#:48; N Pos. 1304,1305,1306,1307,1308,1309,1310,1311,1312,1313,1314,1315
Seq#:48; N Pos. 1316,1317,1318,1319,1320,1321,1322,1323,1324,1325,1326,1327
Seq#:48; N Pos. 1328,1329,1330,1331,1332,1333,1334,1335,1336,1337,1338,1339
Seq#:48; N Pos. 1340,1341,1342,1343,1344,1345,1346,1347,1348,1349,1350,1351

VERIFICATION SUMMARY

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L:588 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:660
M:341 Repeated in SeqNo=48
L:642 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
M:341 Repeated in SeqNo=49
L:667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
M:341 Repeated in SeqNo=51